

# 432 MHz AND ABOVE EME NEWS

September 2001 VOL 30 # 10

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## CONDITIONS

The big news this month is the 1st 24 GHz EME QSO! On 18 Aug at 1419 VE4MA and W5LUA QSO'd (M/M) on 24 GHz. Signals were quite good with slightly less than the normal buzz experienced at 10 GHz. Weather at VE4MA was cool and clear, while at W5LUA it was hot, cloudy and humid. The clouds and the moon's proximity to the sun made optical tracking impossible and thus keeping their dishes pointed at the moon was difficult. VE4MA was using 60 W at the feed of an offset fed 8' dish. W5LUA had 80 W at the feed of a 10' dish. 1296 had the most reported activity this month, but 10 GHz was not far behind and is probably the fastest growing EME band. The close sun had to give small stations on 432 problems and activity there was not the best, but the return of VK3UM's big signal did caused a stir - Doug's report!

ARRL SEPT VHF CONTEST: The Sept SW and this contest coincide. (The contest starts ~ 1800 8 Sept and ends 0400 10 Sept). The good moon conditions this year may attract some contest stations to try EME - see NC1I's report. Unlike Eur VHF/UHF contests, the ARRL contests allow EME contacts, and cover all VHF, UHF and microwave bands. The exchange is simply your 4 character grid locator (for example "FN20").

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### [DL1YMK](#)

Michael had good results on 1296 during the SW. He worked all his skeds with one exception, and plans to be active during the Sept SW. He is interested in skeds for Sept. [What is your email address?]

### [DL5LF](#)

[Frank](#) plans to expand from one yagi to two. He had a sked with us (K2UYH) on 21 Aug. We heard him (549), but he heard nil from us. He did copy us earlier in the day.

### [DL7APV](#)

Bernd reports on his Aug 70 cm EME effort -- All skeds were nil. I am nearly sure that all were not on. Echoes were good and the open feed line seems to work well. I have 18 dB of sun noise. I did work VK3UM (big surprise) and OH2DG on random. Heard were HB9Q and G3HUL. I think will I try to arrange new skeds by email to be sure that they will be on. I still need QSLs from WA4NJP, W7QX and F/ON5OF.

### **DL9KR**

Jan reports working on 70 cm in Aug KO7N for initial #758. He was for his K7XQ sked, but did not hear him. Jan also QSO'd SP6JLW #759 and notes that SP6OPN (JO80) is the same station.

### **F2TU**

[Philippe \[new e-mail address\]](#) was active on 13 cm in Aug and completed the 1st F/JA 2300 QSO on the 11th at 0040 with JA4BLC (M/O) [2304/2424]. He was also active on 23 cm and QSO'd on 11 Aug HB9BBD (569/559), W2DRZ (O/O) and on SSB (33/?), K0YW (55/56) on SSB, F6ETI (539/549), DL1YMK (539/559), K9BCT (539/459), K2UYH (55/55) on SSB, IK2MMB (52/45) on SSB and G4CCH (45/54), and on 12 Aug ZS6AXT (569/579), IK3COJ (539/549), W2DRZ (539/539), OE9ERC (55/55) on SSB, OZ4MM (55/55) on SSB, G4CCH (54/54) on SSB, K2UYH (55/54) on SSB and G3LTF (54/54) on SSB. Philippe on 6 cm worked on 13 Aug F1ANH (549/539) and copied NU7Z (M) and VE4MA (M), and on 10 GHz worked on 15 Aug OK1UWA (O/O), F3VS (539/539), 18 Aug OH2AXH (O/O) for initial #4, W6WD (549/O) #5, HB9BHU (559/O) #6, and on 19 Aug VE4MA (439/O) #7. OK1CA was heard (M) calling W6HD. Philippe notes that many stations are now QRV multiple bands above 432 MHz and that it is impossible to work all these bands simultaneously. He says it is thus necessary to establish separate activity days and times for these bands. If nothing is done, he feels the upper bands will suffer... "Not many people will bother to change feeds unless they know that there will be a good chance of finding someone active". Philippe would like some decisions before the ARRL EME Contest. [Any suggestions?]

### **G3LTF**

[Peter](#) bring us up to date on his summer activity - I have not been too active lately, but did QSO in on 23 June on 1296, W2UHI, VE1ALQ, ZS6AXT, VE6NA and K0YW, and on 24 June HB9BBD, IK2MMB and F6ETI for initial #177. I then went on 13 cm and worked GW3XYW (549/539) for our 1st QSO from this location. In July I was on 432 but the activity was very low and I only contacted UA3PTW and KA0RYT. I noticed that my echoes sounded rough and later found one leg of the HV bridge rectifier had gone open circuit! On 12 Aug I was on 1296 and QSO'd ZS6AXT, W2DRZ for initial #178, he was also heard on SSB, and K2UYH - excellent on SSB. I have several projects underway to improve the system.

### **JH4JLV**

Kaz reports he will be off the moon for about 3 month as a result of a business trip. He hopes to be back on for the ARRL EME Contest. During the Aug SW Kaz observed deep QSB, but QSO'd SK0CC on sked and heard VK3UM, JA6AHB and some Eur signals.

### **K0YW**

**Bruce** reports on 1296 during the SW -- I lost some sleep, but it was worth it. I worked W2DRZ (559/539) and later on SSB (53/53) for initial #103. K2TXB was at the controls. I also QSO'd HB9BBD (579/589), F6ETI (539/549) #104, Nil was hear from K5JL who has his amp fixed and was supposed to be QRV as well. Did you one see the ad in QST by W2PLL for the 60' dish in SE CO on 11 acres for \$US150 k. This includes the land, great Alto Plano desert out there.

### **K7QX**

**Jeff** spent most his time this month on 144 EME, but did get on 432 for a sked with KO7N in which he heard only bits and pieces. Jeff says he should be QRV 1296 for the next SW with 250 - 300 W, a VE4MA feed and 3.3 m dish. He has his 432 AM-6155 PA working, but it becomes very unstable at power levels above 200 W. It looks capable of at least 300 W. (Power and plate current drift upward during instability). He needs to find a way to stabilize it at higher power levels and asks for ideas. Otherwise he is QRV on 432 EME with 200 w.

### **KL6M**

**Nike (x-AL7OB)** has a new call, but the same big 70 cm signal with his new dish - During the SW I heard quite a few stations ... all big guys. I worked JA5OVU (559/559), JA6AHB (549/559) and VK3UM (559/559) for initial #93. Heard were K1FO, K5WXN, KU4F (S-7!) and VK4AFL. I next plan to embark on 220 MHz EME and expect to be ready in time for the ARRL EME Contest. I made this decision because I cannot move toward higher bands until I get my position indication system refined. Also with a minimal footprint on Eur during the contest, I figured I might as well try out 220. I hope there is somebody there to talk to! I have a 144 MHz plumber's delight PA that I plan to convert to 220 for 6-700 W out. I have all the parts for the preamp, feed, and amp, and a new 220 module for my FT-736.

### **KM5A**

**Steve** has become interested in 70 cm EME and writes from SD (DN83hu) -- I am a novice when it comes to EME. My interest in EME started some time ago when I wondered if I could write my own antenna simulation program from scratch. When it came time to check it out, I built a prototype 9 el yagi. I could not go larger because of computer memory limitations. I got to thinking about EME. It dawned on me that there is no UHF activity around me! No repeaters, no nothing. I have yet to hear any signal on 70 cm. I'm going to listen during the SW using 4 x 9 el yagis (19.4 dBi and 1.2 dB NF). If you think this is a hopeless be sure to speak up. My address is (Stephen M. Wheaton, P. O. Box 166, Keystone, SD 57751) and tel is (605) 666-4392.

### **N6TX**

**Paul** reports that the SETI League Moonbounce Beacon Web page at:

### [SETI League Moon Beacon](#)

has recently been updated. Look for the links to lots of new pictures, and a status report right at the top of the page. Please take a look, and pass this on to other EMEers. I regret that we are off the air (1296 MHz) at the moment, but will report to you just as soon as we re-activate the beacon.

### [OK1CA](#)

[Franta](#) reports on his Aug 3 cm activity -- I worked on 10,368 MHz on 18 August W6HD (559/O) for initial #4 - excellent signal, partial AA5C - Greg has problems with his TX/RX waveguide switch. I also heard F2TU.

### [NC1I](#)

Frank will be operating the ARRL's Sept VHF QSO party portable from a hilltop location not far from his home (FN32mc). Because of the excellent moon conditions at the time of the contest, he would like to add a few section multipliers to his 432 score by EME. He is interested in skeds with "big guns" that can work him on his setting moon (9 Sept between 1600 and 1640). Unfortunately QSOs will not be an initial for most stations as the grid is the same as his home. Frank will have about 1 kW at the feed of 2 M2 13wl yagis. The horizon is completely clear at moonset (hilltop). Moonrise Saturday night (local) is during a time of high local 432 activity, so he is limiting EME activity to moonset Sunday.

### [SP8RHP](#)

[BOB](#) in (KO10ef) is now QRV on 70 cm EME -- After long tests and constructions, I am basically operational on 70 cm EME. I still have some work to do on my elevation rotator. I am interested in skeds for the Sept SW. I am also working on the installation of a 10' dish that I will use on 23, 13, 6 and 3 cm. I must finish this project before the winter - hi hi. On 432 MHz I have 4 x 8 DJ9BV yagis, 200 W PA, 0.7 dB NF MRF 966 preamp and low phase noise HB xverter.

### [VK3UM](#)

[Doug](#) is back on the moon and in a big way -- Well the 10 m dish is up and running fully on 70 cm. It sure has been a while as my last QSO off the moon was on 7 Jan with G0RUZ from the old QTH. My 1st echoes were received on 23 July with the driver and 55 W at the feed. The returned signals were as expected, so I was pleased to know that Ohm's Law had not changed! My 1st contact was on 25 July with SM2CEW (549/569). Given the Sun's proximity, I had to wait until the 1st activity weekend on 11/12 Aug to try in earnest. Crawling out of bed at 0130 ... being caught up in the W dog pile ... having more signals to work than you can cope ... the smell of the ozone ... the crash of the circuit breakers ... and the presence of Murphy ... neighbors (you have not heard from for weeks) ringing up

for help to locate their bull that has gotten out ... etc, etc. The following QSOs are all random and the TxH or V and Rx H or V refer to the polarity I was using at the time: on 26 July at 1300 SM2CEW (549/569) TxH RxV, on 11 Aug at 2250 DL7APV (449/449) TxH RxV, 1455 K1FO (559/539) TxH RxH, 1535 VK4AFL (439/439) TxH RxV, 2213 JA5OVU (549/559) TxV RxV, 2306 JA4BLC (449/459) TxV RxV and 2354 G4ERG (449/559) TxV RxH, and on 12 Aug at 0002 G4YTL (449/449) TxV RxH, 0035 JA6AHB (449/559) TxH RxV, 1540 VK4AFL (449/529) TxV RxV, 1616 KL7M (549/559) TxH RxH and 1735 W7BBM (549/559) TxH RxV. Libration fading was very bad at times and the conditions generally I would rate only as fair. A couple of comments regarding the polarity, as the ability to switch is a bit of a novelty at present. Faraday seemed to be about 60° (I guess) all weekend. I used the high tech method of determining my transmit preference by calling alternatively on H and V and waiting for replies! You will find it interesting to see the mix as listed above and without the ability to switch, many contacts would not have been possible. At no time was I unable to hear my echoes. For about an hour I found that V-V was the only combination. (H- H was zilch.) Most of the time H-V or V-H was the norm and H-H was a rarity. It was great to catch up with K1FO and JA4BLC again with whom we have had many dozens of QSOs in the past. It was a pleasure to operate with the dish on full autotrack and positioning to 0.5° absolute. It was one less thing to worry about. I have been asked about accepting skeds. In a word generally no, but I will accepted them under exceptional circumstances. This has always been my 'policy' as I prefer to work stations 3 dB above my imagination! 23 cm? We will be working towards it. It will be a little while.

### **W2DRZ**

[Russ \(K2TXB\)](#) writes on 1296 EME -- Well I've finally caught up on sleep from the weekend EME and MS activities. I will try to summarize our success at our 1st time 23 cm EME from here. Tom, W2DRZ has been working diligently for several years to get his 16' dish ready. Tom now has it fully computer driven and it tracks the moon very well. This certainly is an improvement over having to manually reposition the dish every minute or so! We are using a 16' fiberglass covered aluminum dish that I got a few years ago from a radio station that was replacing it with a 12 GHz dish. The feed is a VE4MA. We have 2 preamps at the feed with a 3 dB attenuator between them to eliminate oscillations. I'm sure our noise figure is degraded by this scheme and we are waiting delivery of an HEMT LNA kit from DEM. We should have that ready by this weekend. With the present setup we get a solid 16 dB of sun noise. We are hoping that with the new K2AH feed (that probably will not be ready until next week) and a new preamp we can improve that by 2 dB. In the meanwhile we are giving out signal reports that are considerably below what they should be, and having much difficulty copying some of the signals that should be easy, please bear with us. The rig is my Yaesu FT847 with a modified Microwave Modules 1296-144 transverter. We



should have that replaced with a new TS2000X by next week. The Amplifier is a pair of 2C29s air cooled, making 100-125 W, which translates to 75-100 W at the feed. We are also working on a new water-cooled final and hope to have 200-300 W online soon. So we are working hard on improvements, but the 1st results are very satisfying! On Saturday 11 Aug we worked 9 random contacts: K5JL (529/549), K0YW (539/559) and on SSB, F2TU (529/O) and on SSB, G4CCH (429/449), K2UYH (429/549), W5LUA (539/O), IK2MMB (0/0), OZ6OL (429/O) and W2UHI (429/429) - all on random and loudspeaker copy. By Sunday we made some improvements in the operating position and added a Timewave DSP59+ and headphones to the setup. We operate from a small trailer next to the dish. Sunday's contacts were: G3LTF (429/539), ZS6AXT (329/439), OZ4MM (539/549), PA3CSG (539/539), F2TU (539/539), OE9ERC (539/559) and SSB, G3CCH (539/539), DL1YMK (O/O), K2UYH (53/53) on SSB, VE1ALQ (539/549), WA1JOF (429/419), KD4LT (529/549) for a total of 21 contacts and 18 initials. We think that is not too bad for our 1st EME weekend. We had a sked with N2IQ at 1530 but he was not there. Someone else was calling us but very weak and I could not get the call. Our location is in Western New York state about 70 miles south of Buffalo in FN02la. Tom lives at the top of a 2150 foot 'mountain' (foothill of the Allegheny mountains). While the dish has a clear horizon to the west and south, to the east there is an Oak forest that masks the moon below about 20 degs. We are interested in as many contacts as we can make, sked or random, so please look for us or send us sked proposals. Finally a note about myself, I am spending my summer vacation at W2DRZ's QTH and helping with the EME project. Many of you may not recognize me as an EME operator. Although I have worked WAS and WAC on 144 EME a number of years ago with my own station in NJ, most of my prior operation has been with Al, K2UYH helping out at his contest station. So many of the stations we worked last weekend were familiar calls and it was like meeting old friends again! I was also the operator of the WA2WEB 2304 EME weekend station a number of years ago and worked some of you then (I particularly remember working Philippe on 2304). It is great fun to be back on EME!

#### **W5LUA**

Al made the 1st EME QSO on 24 GHz with VE4MA - see report at the start of this NL. He is having a problem with arcing of the HV transformer in the TWT power supply and is working on a solution. On 23 cm during the SW, Al worked W2DRZ and DL1YMK, and needs F6ETI. On 3 cm he added W7SZ.

#### **W5ZN**

Joel is making massive changes to his station. He has acquired a 22' dish and has taken down his old 16 yagi array. He hopes have the dish up by Oct, and plans using it initially on 70 cm and 13 cm, and eventually on 23 cm.

### **W7SZ**

**Larry** is now QRV on 3 cm - I am using a 3 m dish, a 25 W TWTA, Chapparral style feedhorn and WG switch. I worked W5LUA, OK1UWA and W6HD for initials #1 through #3. During the Aug SW, I was also QRV on 23 cm and made contacts with OZ6OL, G4CCH, K5JL, F1AHN and W6HD.

### **ZS6AXT**

**Ivo** missed the last SW because of his wife's return from Eur; after 3 months absence, he had to be a bit sociable -- EME activity in last few months on 23 cm has been rather poor. I hope that all are saving power for the coming contests. On Saturday 11 Aug we had a cold front passing here, with strong winds, so I passed. On Sunday 12 Aug I got up early, but 5 hours of calling on 23 cm did not give a single QSO. At 0630 G3LTF showed up with good signals (and in Peter's email he reminded me that 40 years ago we made our 1st MS QSO on 2 m, I was then in OK), then W2DRZ for initial #172 with good signal, OZ4MM and F2TU with usual strong signals. Also heard were IK2MMB, G4CCH and F6ETI. Conditions seemed to be up and down, but mostly good. Last month I had sked with ON5RR on 13 cm. I heard them a few times, but their receive side was not working. During the ARRL UHF Contest, the moon was too south - where my other tower screens my dish. No progress on 3 cm, but I just ordered PCBs for a waveguide input preamp and hope it will be bit better than the SMA input one. I am trying to jack up local microwave activity, so far a few guys are building my design of a 13 cm no tune transverter for AO40 operation. I believe that Peter, ZS6JT is active there on 13 cm. After putting a 23 cm beacon on the air 7 months ago, I am now building a 13 cm beacon. Hopefully one day sooner or later, we will have another ZS/ZR on microwave EME!

### **K2UYH**

I finally was home on a SW. My activity began on 1296 on 11 Aug and I worked at 0812 W2DRZ (549/549) for initial #187 - a very nice surprise, 0824 G4CCH (55/55) on SSB, 0833 F2TU (55/55) on SSB, 0847 DL1YMK (549/559), 0904 IK2MMB (559/559) and 0930 nil DK0ZAB - (in checking my log I found that we had already worked several months ago when Marc was operating). I switched to 432, but heard nil at 1500 KO7N - problems at Richard's end. The next day on 12 Aug I started on 432 and QSO'd at 0820 DL9KR (569/559), but heard little other activity and QSY'd up to 1296 where I QSO'd at 0949 G4CCH (55/54) and F2TU (55/54) 3-way on SSB, 1002 VE1ALQ (55/55) on SSB, 1011 W2DRZ (54/54) on SSB, 1024 G3LTF (54/54) on SSB and 1054 OE9ERC (56/56) on SSB. I was back on 432 on 18 Aug to try again at 1400 with KO7N, but heard nil. I did copy and CWNK K1FO and RA1LE. On 21 Aug I QSO'd at 1630 SM3BYA (O/O), 1700 partial DL5LF (549/-) - he could not hear me, and 1730 partial KO7N (O/M) - disappeared after receiving his report.

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# NETNEWS

by

[G4RGK, DAVID DIBLEY](#)

**W7QX** was at the CSVHF Conference in Dallas and enjoyed meeting with all the EMEers there. During the Aug SW he heard on 23 cm WA1JOF and W2DRZ at about the same signal strength.

**K5WXN** is working on an az/el drive problem.

**W6WE** is working toward getting back on 70 cm EME.

**PA3CSG** is getting 1.4 dB of moon noise on 10 GHz, an improvement of 2.5 dB.

**WA1JOF** QSO'd in Aug on 23 cm KA0Y on CW and SSB, nil was heard from LU8EDR in skeds, but later he worked F6ETI for initial #104, W2DRZ #105 and several more.

**NU7Z** has 0.8 dB of moon noise on 5.7 GHz and is interested in skeds.

**WB3BKC** is measuring 12 dB of sun noise with his un-optimized 12' dish and coffee can feed.

**KA0RYT** worked KO7N (CN84) on 70 cm for a new one in Aug. He will be out of town during the next SW.

**VE1ALQ** is back home after traveling in the USA where he visited K1RQG. During the SW on 23 cm, Darrell worked K2UYH on SSB and W2DRZ for an initial on a CQ. W4AD is now retired and working on his EME system. His dish's azimuth drive is not working yet.

**KL7FH** is a new station coming on EME from Alaska.

**WA9FWD** is working on a GI7b amp for 23 cm and is inactive on 70 cm at this time. He has been QRT on 23 cm due to birds that built a nest and had a family in his dish. He needs to remove the nest before getting back on the air.

**KU4F** (EL99af) is working on an A/D converter and hopes to have his 70 cm station's tracking automated by Nov.

**G4ALH** is still QRV on 70 cm EME.

**K5JL** was on 1296 in Aug and worked W2DRZ, HB9BBD, K0YW, K9BCT, WA1JOF and W2UHI.

**K9BCT** was QRV during the SW. He heard DL1YMK during another contact, but at sked time copied nil. He did work F2TU for an initial and several others.

**DK3WG** is on a 3 week holiday and will not be back until 2 Sept.

**WA4NJP** was stung in the eye by a bee [ouch!]. He should be back on the moon in Sept. Ray has heard no word from the BY station in about a month and will let all know as soon as he hears anything.

**K6IBY** is still rebuilding his antenna system. He had an eye operation that slowed him up a bit.

**WD5AGO** is about ready for 222 EME and is looking for WA4NJP.

**KA0Y** has a new 432 MHz feed in his dish and is getting 21 dB of sun noise.

**W4RDI** is getting his station back together after his devastating lightening hit. He has a new a TS2000 and a new Dell computer for the Internet.

**VE6NA** has an improved SE moon window tnx to his next-door neighbor's removal of some 50' trees.

**W4TJ** got hit by lightening.

**DL6LAU** is getting an 8.5 m dish.

**SM2CEW** was not active on SW due to high winds.

**SK0CC** worked on 16 Aug at 0445 JA5OVU on 70 cm. This was his 1st QSO in response to a CQ.

**N2IQ** is just waiting for feed horn to get his 28' dish on 1296.

**KC0W** will become active on 70 cm EME in the near future.

**HB9Q** is working on their feed systems for 432 and 1296. If everything goes well they should be QRV during the Sept SW.

HR>

**FOR SALE**

**W2PLL has 11 acres and a 60' dish for sale in CO.**

**WB7UNU has a 50' dish looking for a buyer.**

**W7MEM has 2 6 way M2 power dividers for sale. He is also still looking for 9 lambda M2 antennas and a 4 way divider [G4RGK has one].**

**PA3CSG is looking for info on noise diodes.**

**W5LBT is looking for a source of Ultem. He needs a piece 6"x11".**

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## **TECHNICAL**

**G3HUL has sent in 2 versions of circuits (see end of NL) for a Mini Beacon he uses to tell him that his system is still working when he gets on each month for the SW. The Mini Beacon produces a weak but very uniquely identifiable signal that he sets just outside the edge of the band. If this signal is weaker than normal or absent, he knows that he has a problem. The Mark 1 circuit uses a 16 MHz xtal module. Mark 2 uses a normal xtal, but requires a few more components. Every time the LED fires, a voltage drop across R1 causes a frequency shift. The units have to be well shielded to get the signal level down to a few dBs above the noise. Doug mounts his right in the middle of his array so as to keep a constant signal no matter where the antenna is pointed.**

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## **FINAL**

**"The times they are a changing!" In a few months Vol. 30 will go up on the masthead of this NL. Thirty years is a long time. Much has changed in this time period. The principal reason for this NL was the distribution of skeds information. Looking at the size of the recent skeds lists makes me wonder if this function is obsolete? Direct e-mail, not possible 30 years ago, is certainly a more efficient and more certain way of making skeds. I still believe it makes good sense to concentrate skeds during a SW or activity weekend. Letting others know about your skeds is essential to building SW activity. If you make direct skeds by e-mail, please copy K1RQG and/or myself so that we can post these skeds on the skeds list. One problem with this NL is that it is prepared 2 weekends before the SW. This is to allow time for it to arrive by post. Today the majority of readers get the NL by e-mail or the WEB, but there are still more than 60 subscribers who receive the NL by post. If I hold up production to include last minute e-mail skeds, the post readers will probably not receive the NL before the SW. I am not**

sure what is the best solution?

The 2nd function of this NL has been to document and distribute information on 432 up EME activity. Today there are other ways to get EME information by e-mail. Moon-net is an excellent source of EME information, but one of its problems is the amount of information it supplies. It can be overwhelming. I try to boil down the reports and consolidate information in the NL. (Even so, I know there is still a lot of information in the NL.) I believe this is still an important function or I would retire the NL. I rarely check into Moon-net because of my very busy schedule and as a result may miss some information that should be included in the NL. If you see something important, please pass it on to me. Incidentally Moon-Net posting and subscription instructions are at <http://www.nlsa.com/help/moon-net-help.html>.

NU7Z still needs info from microwave EMEers for his directory. Please email to Rick at .

My friends at the Packrats have asked me to announce their 25th Mid Atlantic States VHF Conference to be held on Saturday, 13 Oct, followed on Sunday by their great Hamarama flea market - an excellent place to find microwave parts and equipment. The Conference will be held at the Radison, North East Hotel, 2400 Old Lincoln Hwy. & US Rt. 1, Trevoze, PA 19503-6894. For Hotel Reservations call (215) 638-8300. Room rates are \$89 + 8% tax. Notice: Deadline for block room rate is Sept 21. Mention Block Code "Pack Rats" for special room rate. Hospitality Suite at the Hotel Friday and Saturday nights. Test equipment and RF consultants will be operating a Tech Center on Saturday afternoon in an adjoining room. Hospitality Suite at the Hotel Friday and Saturday nights. Breakfast (\$10) and Lunch (\$15) available Saturday at the Hotel. Saturday evening banquet with lots of good door prizes. Banquet cost \$30. Menu to be announced. Up to date information on the conference and Hamarama can be found at the Packrat web page at [http://www.ij.net/packrats/Hamrama%202001/Hama\\_01.html#Anchor-35593](http://www.ij.net/packrats/Hamrama%202001/Hama_01.html#Anchor-35593). Admission at the door @ \$25 each, Advance Registration @ \$20 each, Advance Banquet @ \$30 each. Registration does not include Hamarama. Hamarama tickets available at the door. Write your name, call, mailing address, and email address on a piece of paper and mail to: Mt. Airy VHF Radio Club P.O. Box 682, Hatboro, PA 19040.

The NL needs more technical material, please if you have any ideas, technical hints, etc. please send them in! Keep the reports coming too as discussed above!

I will be in the UK for the European Microwave Conference in London between 22 and 30 Sept. I am planning to get together with G3LTF and some of the G EMEers on Sunday 23 May. If any of you will be at the conference let me know. I'd love to meet you. Look for me during the SW.

**73 for the next 29, AI - K2UYH**



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**EME Schedules**

**8 SEPT**

**Time 432.050**

**0530z DL1YMK-WD5AGO**

**0600z DL1YMK-VE6TA**

**9 SEPT**

**Time 1296.050**

**1030z F6ETI -K2UYH**

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